(FILE 'HOME' ENTERED AT 11:09:22 ON 27 OCT 2004)

FILE 'MEDLINE, CAPLUS, BIOSIS, AGRICOLA' ENTERED AT 11:09:29 ON 27 OCT 2004

L1	7	S	CU	JULA I	RIA
L2	0	S	L1	AND	PALLESCENS

861 S PALLESCENS

L3 0 S OXIDOREDUCTASE AND L3 L4

23 S L3 AND OXI? L5

20 DUP REM L5 (3 DUPLICATES REMOVED) L6

=>

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	-				
_		_			manada et des
Score	Match	Length	DB	ID	Description
	100.0	607			Sequence 7, Appli
3336	100.0	627	4		sequence /, Appii
3336	100.0	627	4	US-09-868-839-7 6,509,509	Sequence 7, Appli
3168	95.0	627	4	US-09-468-578-4	Sequence 4, Appli
3168	95.0	627	4	US-09-868-839-4	Sequence 4, Appli
1929.5	57.8	594	4	US-09-468-578-2	Sequence 2, Appli
1929.5	57.8	594	4	US-09-218-702-2	Sequence 2, Appli
1929.5	57.8	594	4	US-09-868-839-2	Sequence 2, Appli
1795	53.8	572	3	US-09-401-476-4	Sequence 4, Appli
1776	53.2	568	4	US-09-218-702-4	Sequence 4, Appli
	3168 3168 1929.5 1929.5 1929.5	3336 100.0 3336 100.0 3168 95.0 3168 95.0 1929.5 57.8 1929.5 57.8 1929.5 57.8	Query Score Match Length 3336 100.0 627 3336 100.0 627 3168 95.0 627 3168 95.0 627 1929.5 57.8 594 1929.5 57.8 594 1929.5 57.8 594 1795 53.8 572	Query Score Match Length DB 3336 100.0 627 4 3336 100.0 627 4 3168 95.0 627 4 3168 95.0 627 4 1929.5 57.8 594 4 1929.5 57.8 594 4 1929.5 57.8 594 4 1795 53.8 572 3	Query Score Match Length DB ID 3336 100.0 627 4 US-09-468-578-7 3336 100.0 627 4 US-09-868-839-7 () () () () () () () () () (



Database :

A_Geneseq_29Jan04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*

8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		8				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
						Aay96763 Curvulari
1	3336	100.0	627	3	AAY96763	
2	3336	100.0	627	3	AAY95539	Aay95539 Curvulari
3	3336	100.0	627	5	AAO18212	Aao18212 C pallesc
4	3168	95.0	627	3	AAY96762	Aay96762 Bipolaris
5	3168	95.0	627	3	AAY95538	Aay95538 Bipolariu
6	3168	95.0	627	5	AA018211	Aao18211 B spicife
7	3168	95.0	627	6	ABG75578	Abg75578 B. spicif
8	2548	76.4	480	6	ABG75579	Abg75579 C. palles
9	1929.5	57.8	594	2	AAY45222	Aay45222 Stachybot
10	1929.5	57.8	594	2	AAY39992	Aay39992 Stachybot
11	1929.5	57.8	594	3	AAY96761	Aay96761 Stachybot
12	1929.5	57.8	594	3	AAY95537	Aay95537 Stachybot
13	1929.5	57.8	594	5	AAO18210	Aao18210 S chartar
14	1929.5	57.8	594	6	ABG75577	Abg75577 S. charta
15	1795	53.8	572	2	AAR40843	Aar40843 Bilirubin
16	1761.5	52.8	602	3	AAY69204	Aay69204 Amino aci
17	1743.5	52.3	583	5	AAU97316	Aau97316 Phenol ox
18	1743.5	52.3	583	5	ABB75770	Abb75770 Phenol ox

```
RESULT 2
AAY95539
    AAY95539 standard; protein; 627 AA.
ID
XX
AC
     AAY95539;
XX
     10-OCT-2000 (first entry)
DT
XX
     Curvularia pallescens phenol oxidising enzyme.
DΕ
XX
     Phenol oxidising enzyme; detergent; bleaching.
KW
XX
     Curvularia pallescens.
OS
XX
     WO200039306-A2.
PN
XX
     06-JUL-2000.
PD
XX
PF
     20-DEC-1999;
                    99WO-EP010287.
XX
PR
     23-DEC-1998;
                    98US-00220871.
PR
     23-JUN-1999;
                    99US-00338723.
XX
PA
     (UNIL ) UNILEVER NV.
PΑ
     (UNIL ) UNILEVER PLC.
PΑ
     (HIND-) HINDUSTAN LEVER LTD.
XX
     Bodie EA, Van Der Velden S, De Vries CH, Wang H;
PΙ
XX
     WPI; 2000-514528/46.
DR
     N-PSDB; AAA50021.
DR
XX
     Detergent composition comprising novel phenol oxidizing enzyme obtained
PT
     from fungus or bacteria, useful for pulp and paper bleaching, bleaching
PT
     color of stains on fabric and for anti-dye redeposition.
PT
XX
     Claim 8; Fig 10; 45pp; English.
PS
XX
     The present sequence is that of the Curvularia pallescens phenol
CC
     oxidising enzyme. The invention relates to detergent compositions
CC
     comprising novel phenol oxidising enzymes that have at least 60% identity
CC
     with the phenol oxidising enzyme of Stachybotrys chartarum (see
CC
     AAY95537), and which are obtained from a bacterium, yeast or non-
CC
     Stachybotrys fungus, especially C. pallescens, Bipolarius spicifera (see
CC
     AAY95538) and Amerosporium atrum (see AAY95540). The phenol oxidising
CC
     enzyme is capable of modifying the colour associated with dyes or
CC
     coloured compounds, and can be used for pulp and paper bleaching, for
CC
     bleaching the colour of stains on fabric and for anti-dye transfer in
CC
     detergent and textile applications. It may also be capable of modifying
CC
     the colour in the absence or presence of an enhancer. Expression vectors
CC
     and host cells comprising a nucleic acid encoding a phenol oxidising
CC
     enzyme, methods for producing the phenol oxidising enzyme, and methods
CC
     for constructing expression hosts are provided
CC
XX
SQ
     Sequence 627 AA;
```

100.0%; Score 3336; DB 3; Length 627;

Query Match

	Best Loc Matches		Similarity 100.0%; Pred. No. 5.5e-307; 7; Conservative 0; Mismatches 0; Indels 0; Gaps	0;
ΩΣ £Ω			MVAKYLFSALQLASIAKGIYGVALSERPAKYIDETPDEEKAALAAIVEDDPADVFRILKD	
Q۲			WQSPEYPILFREALPIPPAKEPNKMTNPVTNKEIWYYEIVIKPFNQQVYPSLRPARLVGY	
Dł Qy			WQSPEYPILFREALPIPPAKEPNKMTNPVTNKEIWYYEIVIKPFNQQVYPSLRPARLVGY DGISPGPTIIVPRGTEAVVRFVNQGDRESSIHLHGSPSRAPFDGWAEDLIMKGQFKDYYY	
Dł		121		180
Q	7	181	PNNQAARFLWYHDHAMHVTAENAYFGQAGAYLITDPAEDALGLPSGYGKYDIPLVLSSKF	240
D)	o	181	PNNQAARFLWYHDHAMHVTAENAYFGQAGAYLITDPAEDALGLPSGYGKYDIPLVLSSKF	240
Q:	7		YNSDGTLQTSVGEDNSLWGDVIHVNGQPWPFFNVEPRKYRLRFLNAAVSRNFALYFVKQQ	
DÌ	0		YNSDGTLQTSVGEDNSLWGDVIHVNGQPWPFFNVEPRKYRLRFLNAAVSRNFALYFVKQQ	
Q:	7		ATATRLPFQVIASDAGLLTHPVQTSDIYVAAAERYEIVFDFAPYAGQTIDLRNFAKANGV	
D]	0		ATATRLPFQVIASDAGLLTHPVQTSDIYVAAAERYEIVFDFAPYAGQTIDLRNFAKANGV	
Q;	Y		GTDDDYANTDKVMRFHVSSQAVVDNSVVPAQLSQIQFPADKTGIDHHFRFHRTNSEWRIN	
D]	0		GTDDDYANTDKVMRFHVSSQAVVDNSVVPAQLSQIQFPADKTGIDHHFRFHRTNSEWRIN	
Q;	Y		GIGFADVQNRILAKVPRGTVELWELENSSGGWSHPIHVHLVDFRVVARYGDESTRGVMPY	
D.	b		GIGFADVQNRILAKVPRGTVELWELENSSGGWSHPIHVHLVDFRVVARYGDESTRGVMPY	
Q:	Y		ESAGLKDVVWLGRHETVLVEAHYAPWDGVYMFHCHNLIHEDQDMMAAFDVTKLQNFGYNE	
D.	b		ESAGLKDVVWLGRHETVLVEAHYAPWDGVYMFHCHNLIHEDQDMMAAFDVTKLQNFGYNE	
Q			TTDFHDPEDSRWSARPFTAADLTARSGIFSEASIRARVNELALEQPYSELAQVTASLEQY	
D			TTDFHDPEDSRWSARPFTAADLTARSGIFSEASIRARVNELALEQPYSELAQVTASLEQY	000
Q D			YKTNKKRQAECEDMPAGPIPRYRRFQV 627	
IJ	U	OOT	TIVINITATION OF TENTINITY OF THE	

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RESULT 3
AA018212
ID
    AAO18212 standard; protein; 627 AA.
XX
AC
    AA018212;
XX
DT
    13-SEP-2002 (first entry)
XX
DE
    C pallescens phenol oxidising enzyme.
XX
    Phenol oxidising enzyme; enzyme; fungus; redox reaction; detergent;
KW
    paper industry; pulp industry; textile; food industry.
KW
XX
OS
    Curvularia pallescens.
XX
PN
    US6399329-B1.
XX
PD
    04-JUN-2002.
XX
PF
    21-DEC-1999;
                  99US-00468578.
XX
PR
    12-DEC-1998;
                   98US-00220871.
PR
    23-JUN-1999;
                  99US-00338723.
XX
     (GEMV ) GENENCOR INT INC.
PA
XX
    Wang H, Bodie EA;
_{
m PI}
XX
DR
    WPI; 2002-498835/53.
DR
    N-PSDB; AAL47585.
XX
    New polynucleotides encoding phenol oxidizing enzymes, useful for
PT
    preventing the transfer of dyes in solution from one textile to another
PT
    during detergent washing.
PT
XX
PS
    Example 5; Fig 10; 37pp; English.
XX
    The present invention provides the protein and coding sequences of phenol
CC
    oxidising enzymes from Stachybotrys chartarum, Bipolaris spicifera and
CC
CC
    Curvularia pallescens. These enzymes are useful in the textiles, paper,
    pulp, detergent and food industries. In particular they are useful for
CC
    preventing the transfer of dyes in solution from one textile to another
CC
    during detergent washing (dye transfer inhibition). The present sequence
CC
    is the C. pallescens phenol oxidising enzyme
CC
XX
SO
    Sequence 627 AA;
 Query Match
                        100.0%;
                                 Score 3336; DB 5; Length 627;
                        100.0%;
 Best Local Similarity
                                Pred. No. 5.5e-307;
                                                             0; Gaps
                                                                         0;
 Matches 627; Conservative
                               0; Mismatches
                                                0; Indels
           1 MVAKYLFSALQLASIAKGIYGVALSERPAKYIDETPDEEKAALAAIVEDDPADVFRILKD 60
QУ
             1 MVAKYLFSALQLASIAKGIYGVALSERPAKYIDETPDEEKAALAAIVEDDPADVFRILKD 60
Db
          61 WQSPEYPILFREALPIPPAKEPNKMTNPVTNKEIWYYEIVIKPFNQQVYPSLRPARLVGY 120
Qу
```

Db	61	WQSPEYPILFREALPIPPAKEPNKMTNPVTNKEIWYYEIVIKPFNQQVYPSLRPARLVGY	120
Qy	121	DGISPGPTIIVPRGTEAVVRFVNQGDRESSIHLHGSPSRAPFDGWAEDLIMKGQFKDYYY	180
Db	121	DGISPGPTIIVPRGTEAVVRFVNQGDRESSIHLHGSPSRAPFDGWAEDLIMKGQFKDYYY	180
QУ	181	PNNQAARFLWYHDHAMHVTAENAYFGQAGAYLITDPAEDALGLPSGYGKYDIPLVLSSKF	240
Db	181	PNNQAARFLWYHDHAMHVTAENAYFGQAGAYLITDPAEDALGLPSGYGKYDIPLVLSSKF	240
Qу	241	YNSDGTLQTSVGEDNSLWGDVIHVNGQPWPFFNVEPRKYRLRFLNAAVSRNFALYFVKQQ	300
Db	241	YNSDGTLQTSVGEDNSLWGDVIHVNGQPWPFFNVEPRKYRLRFLNAAVSRNFALYFVKQQ	300
Qy	301	ATATRLPFQVIASDAGLLTHPVQTSDIYVAAAERYEIVFDFAPYAGQTIDLRNFAKANGV	360
Db	301	ATATRLPFQVIASDAGLLTHPVQTSDIYVAAAERYEIVFDFAPYAGQTIDLRNFAKANGV	360
Qy	361	GTDDDYANTDKVMRFHVSSQAVVDNSVVPAQLSQIQFPADKTGIDHHFRFHRTNSEWRIN	420
Db	361	GTDDDYANTDKVMRFHVSSQAVVDNSVVPAQLSQIQFPADKTGIDHHFRFHRTNSEWRIN	420
Qy	421	GIGFADVQNRILAKVPRGTVELWELENSSGGWSHPIHVHLVDFRVVARYGDESTRGVMPY	480
Db	421	GIGFADVQNRILAKVPRGTVELWELENSSGGWSHPIHVHLVDFRVVARYGDESTRGVMPY	480
Qy	481	ESAGLKDVVWLGRHETVLVEAHYAPWDGVYMFHCHNLIHEDQDMMAAFDVTKLQNFGYNE	540
Db	481	ESAGLKDVVWLGRHETVLVEAHYAPWDGVYMFHCHNLIHEDQDMMAAFDVTKLQNFGYNE	540
Qу	541	TTDFHDPEDSRWSARPFTAADLTARSGIFSEASIRARVNELALEQPYSELAQVTASLEQY	600
Db	541	TTDFHDPEDSRWSARPFTAADLTARSGIFSEASIRARVNELALEQPYSELAQVTASLEQY	600
Qу	601	YKTNKKRQAECEDMPAGPIPRYRRFQV 627	
Db	601	YKTNKKRQAECEDMPAGPIPRYRRFQV 627	

```
RESULT 4
AAY96762
    AAY96762 standard; protein; 627 AA.
ID
XX
AC
    AAY96762;
XX
    09-OCT-2000 (first entry)
DT
XX
    Bipolaris spicifera phenol oxidizing enzyme.
DE
XX
    Phenol oxidizing enzyme; colour; dye; modification; detergent; stain;
KW
KW
    pulp; paper bleaching.
XX
    Bipolaris spicifera.
OS
XX
    WO200037654-A2.
PN
ХХ
PD
    29-JUN-2000.
XX
PF
     20-DEC-1999;
                   99WO-US031009.
XX
PR
     23-DEC-1998;
                   98US-00220871.
PR
     23-JUN-1999;
                   99US-00338723.
XX
     (GEMV ) GENENCOR INT INC.
PΑ
XX
     Wang H, Bodie EA;
PΙ
XX
     WPI; 2000-452191/39.
DR
     N-PSDB; AAA51315.
DR
XX
     New phenol oxidizing enzyme for modifying colors associated with dyes or
PT
     colored compounds, is obtained from fungus and is encoded by a nucleic
PT
     acid comprising a specific nucleotide sequence.
PT
XX
     Claim 8; Fig 3; 45pp; English.
PS
XX
     This sequence is the Bipolaris spicifera phenol oxidizing enzyme. Phenol
CC
     oxidizing enzymes encoded by nucleic acid sequences which hybridize to
CC
     the Stachybotrys chartarum DNA (AAA51313) are claimed, as long as the
CC
     enzyme is capable of modifying the colour associated with dyes or
CC
     coloured compounds. The enzymes are useful in detergent compositions and
CC
     for modifying colors associated with dyes or coloured compounds which
CC
     occur in stains in a sample. The enzymes are also useful for pulp and
CC
     paper bleaching, anti-dye transfer in detergent and other textile
CC
CC
     applications
XX
SO
     Sequence 627 AA;
                         95.0%; Score 3168; DB 3; Length 627;
  Query Match
                         92.8%; Pred. No. 4.9e-291;
  Best Local Similarity
                                                                            0;
                                                                0; Gaps
  Matches 582; Conservative 25; Mismatches
                                                 20; Indels
            1 MVAKYLFSALQLASIAKGIYGVALSERPAKYIDETPDEEKAALAAIVEDDPADVFRILKD 60
Qу
              1 MVAKYLFSALQLVSIAKGIYGVALSERPAKFVDNTPDEEKAALASIVEDDPADVVNMLKD 60
Db
```

QУ	61	WQSPEYPILFREALPIPPAKEPNKMTNPVTNKEIWYYEIVIKPFNQQVYPSLRPARLVGY	120
Db	61	:: :	120
QУ	121	DGISPGPTIIVPRGTEAVVRFVNQGDRESSIHLHGSPSRAPFDGWAEDLIMKGQFKDYYY	180
Db	121	DGISPGPTIIVPRGTEAVVRFINQGDRESSIHLHGSPSRAPFDGWADDMIMKGEYKDYYY	180
Qу	181	PNNQAARFLWYHDHAMHVTAENAYFGQAGAYLITDPAEDALGLPSGYGKYDIPLVLSSKF	240
Db	181	PNNQAARFLWYHDHAMHVTAENAYFGQAGAYLITDPAEDALGLPSGYGKYDIPLVLSSKY	240
Qy	241	YNSDGTLQTSVGEDNSLWGDVIHVNGQPWPFFNVEPRKYRLRFLNAAVSRNFALYFVKQQ	300
Db		YNADGTLKTSVGEDKSVWGDIIHVNGQPWPFLNVEPRKYRLRFLNAAVSRNFALYFVKQD	
Qy		ATATRLPFQVIASDAGLLTHPVQTSDIYVAAAERYEIVFDFAPYAGQTIDLRNFAKANGV	
Db		NTATRLPFQVIASDAGLLTHPVQTSDMYVAAAERYEIVFDFAPYAGQTLDLRNFAKANGI	
Qy		GTDDDYANTDKVMRFHVSSQAVVDNSVVPAQLSQIQFPADKTGIDHHFRFHRTNSEWRIN	
Db		GTDDDYANTDKVMRFHVSSQTVVDNSVVPEQLSQIQFPADKTDIDHHFRFHRTNGEWRIN	
Qy		GIGFADVQNRILAKVPRGTVELWELENSSGGWSHPIHVHLVDFRVVARYGDESTRGVMPY	
Db		GIGFADVENRVLAKVPRGTVELWELENSSGGWSHPIHVHLVDFRVVARYGDEGTRGVMPY	
QУ		ESAGLKDVVWLGRHETVLVEAHYAPWDGVYMFHCHNLIHEDQDMMAAFDVTKLQNFGYNE	
Db		EAAGLKDVVWLGRHETVLVEAHYAPWDGVYMFHCHNLIHEDQDMMAAFDVTKLQNFGYNE	
QУ		TTDFHDPEDSRWSARPFTAADLTARSGIFSEASIRARVNELALEQPYSELAQVTASLEQY	
Db	541	TTDFHDPEDPRWSARPFTAGDLTARSGIFSEESIRARVNELALEQPYSELAQVTASLEQY	600
QУ	601	YKTNKKRQAECEDMPAGPIPRYRRFQV 627 :	
Db	601	YKTNQKRHDECEDMPAGPIPRYRRFQV 627	

•

```
Published Applications_AA:*
Database :
                   /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
                    /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
                    /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
                    /cgn2 6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
                4:
                    /cgn2 6/ptodata/2/pubpaa/US07 NEW PUB.pep:*
                5:
                    /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
                6:
                    /cqn2 6/ptodata/2/pubpaa/US08 NEW PUB.pep:*
                7:
                    /cqn2 6/ptodata/2/pubpaa/US08 PUBCOMB.pep:*
                8:
                    /cgn2 6/ptodata/2/pubpaa/US09A PUBCOMB.pep:*
                9:
                10: /cgn2 6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
                11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
                12: /cgn2 6/ptodata/2/pubpaa/US09 NEW PUB.pep:*
                13: /cgn2 6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
                14: /cgn2 6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
                    /cgn2 6/ptodata/2/pubpaa/US10C PUBCOMB.pep:*
                    /cgn2 6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
                16:
                    /cgn2 6/ptodata/2/pubpaa/US60 NEW PUB.pep:*
                17:
                18: /cgn2 6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*
```

Q.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result		Query				
No.	Score	Match	Length	DB	ID 	Description
1	3336	100.0	627	13	US-10-080-210-7	Sequence 7, Appli
2	3168	95.0	627	9	US-09-338-723A-4	Sequence 4, Appli
3	3168	95.0	627	13	US-10-080-210-4	Sequence 4, Appli
4	1929.5	57.8	594	9	US-09-338-723A-2	Sequence 2, Appli
5	1929.5	57.8	594	13	US-10-080-210-2	Sequence 2, Appli
6	1929.5	57.8	594	13	US-10-080-233-2	Sequence 2, Appli
7	1795	53.8	572	9	US-09-942-185-4	Sequence 4, Appli
8	1795	53.8	572	14	US-10-241-602-4	Sequence 4, Appli

Database :

PIR_78:*

1: pir1:*

2: pir2:*

3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		8				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
1	1795	53.8	572	2	B48521	bilirubin oxidase
2	689	20.7	513	2	F69604	spore coat protein
3	457.5	13.7	568	2	B86364	hypothetical prote
4	432.5	13.0	591	2	G96734	spore coat protein
5	427.5	12.8	527	2	C70397	periplasmic cell d
6	426.5	12.8	533	2	AC0414	probable exported
7	423	12.7	494	2	AC3582	probable blue-copp
8	412	12.4	516	2	C64735	probable copper-bi
9	409	12.3	516	2	G90644	hypothetical prote
10	409	12.3	516	2	G85495	hypothetical prote
11	390	11.7	536	2	AF0523	probable multicopp
12	320.5	9.6	470	2	E91116	suppressor of ftsI
13	320.5	9.6	470	2	E85961	suppressor of ftsI
14	319.5	9.6	470	2	G65088	sufI protein precu
15	310.5	9.3	470	2	AD0888	SufI protein [impo
16	296.5	8.9	513	2	G81298	probable periplasm
17	291	8.7	474	2	AD0083	probable cell divi
18	267	8.0	463	2	G83175	probable metallo-o
19	263	7.9	1662	2	T18540	mofA protein precu
20	250	7.5	721	2	H82528	L-ascorbate oxidas
21	233.5	7.0	311	2	H64157	sufI protein homol
22	225.5	6.8	500	2	B83910	hypothetical prote
23	217	6.5	520	2	JC5356	laccase (EC 1.10.3

Database : SwissProt_42:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		8				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
1	 1795	53.8	572	1	BLRO MYRVE	Q12737 myrothecium
2	689	20.7	513	1	COTA BACSU	P07788 bacillus su
3	528.5	15.8	642	1	PHSA STRAT	Q53692 streptomyce
4	426.5	12.8	533	1	CUEO YERPE	Q8zbk0 yersinia pe
5	412	12.4	516	1	CUEO ECOLI	P36649 escherichia
6	409	12.3	516	1	CUEO ECO57	Q8x947 escherichia
7	390	11.7	536	1	CUEO SALTI	Q8z9e1 salmonella
8	390	11.7	536	1	CUEO SALTY	Q8zrs2 salmonella
9	319.5	9.6	470	1	SUFI ECOLI	P26648 escherichia
10	310.5	9.3	470	1	SUFI SALTY	P40799 salmonella
11	233.5	7.0	311	1	SUFI HAEIN	P44847 haemophilus
12	217	6.5	520	1	LAC4 TRAVI	Q99055 trametes vi
13	216	6.5	520	1	LAC4_TRAVE	Q12719 trametes ve
14	210.5	6.3	591	1	LAC1_CRYPA	Q03966 cryphonectr
15	210	6.3	619	1	LAC1 NEUCR	P06811 neurospora
16	200	6.0	619	1	LAC2 NEUCR	P10574 neurospora
17	197	5.9	529	1	LAC1 PLEOS	Q12729 pleurotus o
18	195.5	5.9	533	1	LAC2_PLEOS	Q12739 pleurotus o
19	194	5.8	589	1	CPA2 PSESM	P59571 pseudomonas

Database : SPTREMBL_25:* 1: sp_archea:* 2: sp_bacteria:* 3: sp_fungi:* 4: sp human:* 5: sp_invertebrate:* 6: sp_mammal:* 7: sp_mhc:* 8: sp_organelle:* 9: sp_phage:* 10: sp_plant:* 11: sp_rodent:* 12: sp virus:* 13: sp_vertebrate:* 14: sp_unclassified:*
15: sp_rvirus:*
16: sp_bacteriap:* 17: sp_archeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		€				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
1	1761.5	52.8	602	3	Q9P8C3	Q9p8c3 acremonium
2	624.5	18.7	475	2	Q93M03	Q93m03 streptomyce
3	611	18.3	513	16	Q8CXJ7	Q8cxj7 oceanobacil
4	534	16.0	431	2	Q8RMC6	Q8rmc6 streptomyce
5	513.5	15.4	631	2	Q8GB87	Q8gb87 streptomyce
6	508	15.2	583	16	Q8FQU9	Q8fqu9 corynebacte
7	487	14.6	511	16	Q8NRU6	Q8nru6 corynebacte
8	483.5	14.5	582	10	Q9AWU4	Q9awu4 oryza sativ
9	467.5	14.0	637	10	Q9FTS3	Q9fts3 oryza sativ
10	467	14.0	501	16	Q88ZG5	Q88zg5 lactobacill

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RESULT 2
AR275740
                                            linear PAT 10-APR-2003
                             858 bp
                                     DNA
LOCUS
         AR275740
         Sequence 8 from patent US 6509307.
DEFINITION
         AR275740
ACCESSION
         AR275740.1 GI:29709289
VERSION
KEYWORDS
SOURCE
         Unknown.
 ORGANISM
         Unknown.
         Unclassified.
            (bases 1 to 858)
REFERENCE
         Bodie, E.A., van der Velden, S., de Vries, C.H. and Wang, H.
 AUTHORS
         Detergent compositions comprising phenol oxidizing enzymes from
 TITLE
         Patent: US 6509307-A 8 21-JAN-2003;
 JOURNAL
                Location/Qualifiers
FEATURES
                1. .858
    source
                 /organism="unknown"
                 /mol type="genomic DNA"
ORIGIN
                     99.0%; Score 849; DB 6; Length 858;
 Query Match
 Best Local Similarity 100.0%; Pred. No. 5.6e-206;
                          0; Mismatches
                                                    0; Gaps
                                                              0;
 Matches 858; Conservative
                                         0: Indels
         1 CACCGCCGAGAACGCTTACTTTGGTCAAGCTGGCTTTTACATTCTGCACGACCCCGCTGA 60
Qу
           1 CACCGCCGAGAACGCTTACTTTGGTCAAGCTGGCTTTTACATTCTGCACGACCCCGCTGA 60
Db
         61 AGATGCATTGGGTCTGCCTTCTGGCAAGTATGATGTACCTCTTGCACTGTCCTCCAAGCA 120
Qу
           61 AGATGCATTGGGTCTGCCTTCTGGCAAGTATGATGTACCTCTTGCACTGTCCTCCAAGCA 120
Db
        121 GTACAACAGCGACGGTACCCTCTTCGACCCCAAGGACGAGACCGATTCACTGTTCGGCGA 180
Qу
           121 GTACAACAGCGACGGTACCCTCTTCGACCCCAAGGACGAGACCGATTCACTGTTCGGCGA 180
Db
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Qу
           181 TGTCATCCACGTCAACGGACAGCCATGGCCCTACTTTAAGGTCGAGCCTCGCAAGTACCG 240
Db
        241 TCTCCGCTTCCTCAATGCTGCTATCAGCCGTGCCTTCAAGCTCACTTTCGAGGCTGATGG 300
Qу
           241 TCTCCGCTTCCTCAATGCTGCTATCAGCCGTGCCTTCAAGCTCACTTTCGAGGCTGATGG 300
Db
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Qу
           301 CAAAGTGATCAACTTTCCTGTCATCGGTGCCGATACTGGTCTCTTGACCAAGCCTGTTCA 360
Db
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Qу
           361 GACAAGCAACCTTGAGATCTCTATGGCCGAGCGCTGGGAGGTTGTTTTTGACTTCAGCCA 420
Db
        421 ATTTTCCGGGAAGAACGTCACCCTCAAGAACGGTCGCGATGTGCAGCACGATGAGGACTA 480
Qу
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Db
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Qу	481	CAACTCCACCGACAAAGTCATGCAGTTCGTTGTTGGCAAGGATGTTACGAGCCAGGCIGG	540
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Qy	541	TAATGGCAACCTTCCCGGCTCTCTGCGCACTGTTCCCTTCCCTCCTAAGAAGGGGCGGAG	600
Db	541	TAATGGCAACCTTCCCGGCTCTCTGCGCACTGTTCCCTTCCCTAAGAAGGGGCGGAG	600
Qy	601	TCGACAGGAGCTTCAAGTTCGGCAGGGACCGGTGGCCAGTGGACTGTTAATGGCTTGACC	660
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QУ	661	TTCGCTGATGTCAACAACCGCATCCTGGCTAAGCCCCCAACGTGGTGCCATCGAGGTTTT	720
Db	661	TTCGCTGATGTCAACAACCGCATCCTGGCTAAGCCCCCAACGTGGTGCCATCGAGGTTTT	720
QУ	721	GGGAGCTTTGAGAACTTCCAGCGGNGGNTGGTCTTACCCTTGTCCACATCCACCTGGGTC	780
Db	721	GGGAGCTTTGAGAACTTCCAGCGGNGGNTGGTCTTACCCTTGTCCACATCCACCTGGGTC	780
QУ	781	GACTTTCCAGATNCTTGTCTTGCACTGGANGCAAGGCNCCCCGTTNTAACTNCNANAAAG	840
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Qу	841	GAAGCACTTTCAAGGGCG 858	
Db	841	GAAGCACTTTCAAGGGCG 858	

4 4

Result No.	Score	% Query Match	Length 1	DB	ID	Description
1	3336	100.0	627	26	US-10-080-210-7	Sequence 7, Appli
2	3168	95.0	627	17	US-09-338-723-4	Sequence 4, Appli
3	3168	95.0	627	17	US-09-338-723A-4	Sequence 4, Appli
4	3168	95.0	627	26	US-10-080-210-4	Sequence 4, Appli
5	1929.5	57.8	594	16	US-09-218-702-2	Sequence 2, Appli
6	1929.5	57.8	594	16	US-09-273-957-2	Sequence 2, Appli
7	1929.5	57.8	594	17	US-09-338-723-2	Sequence 2, Appli
8	1929.5	57.8	594	17	US-09-338-723A-2	Sequence 2, Appli